

FIG.1

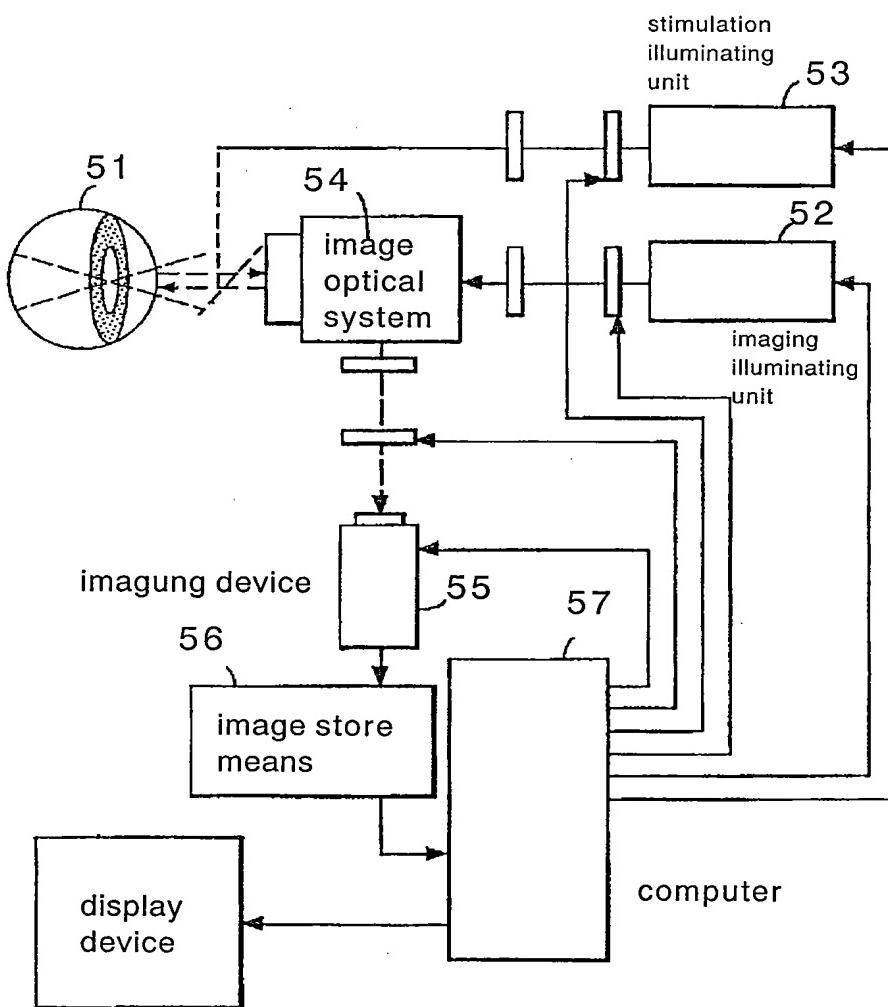


FIG.2

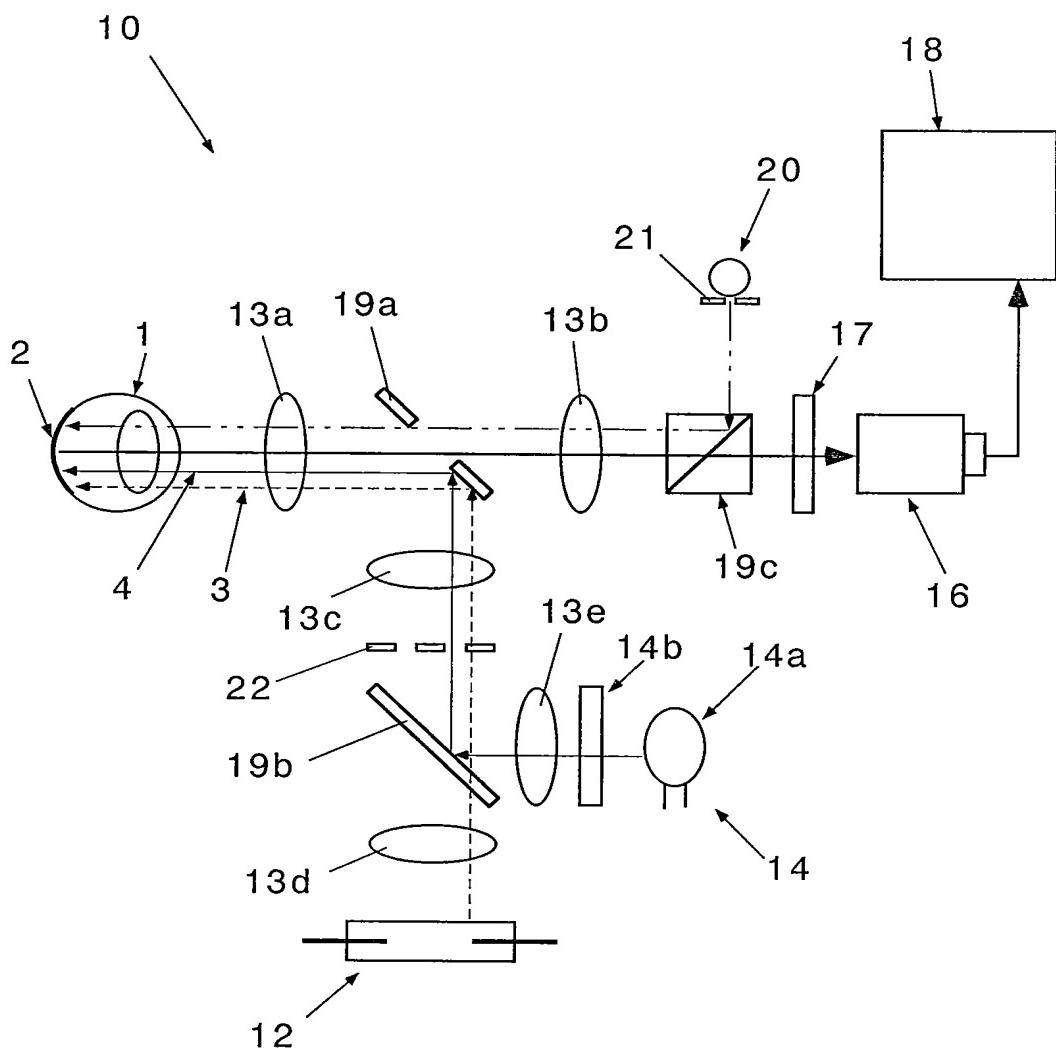


FIG.3

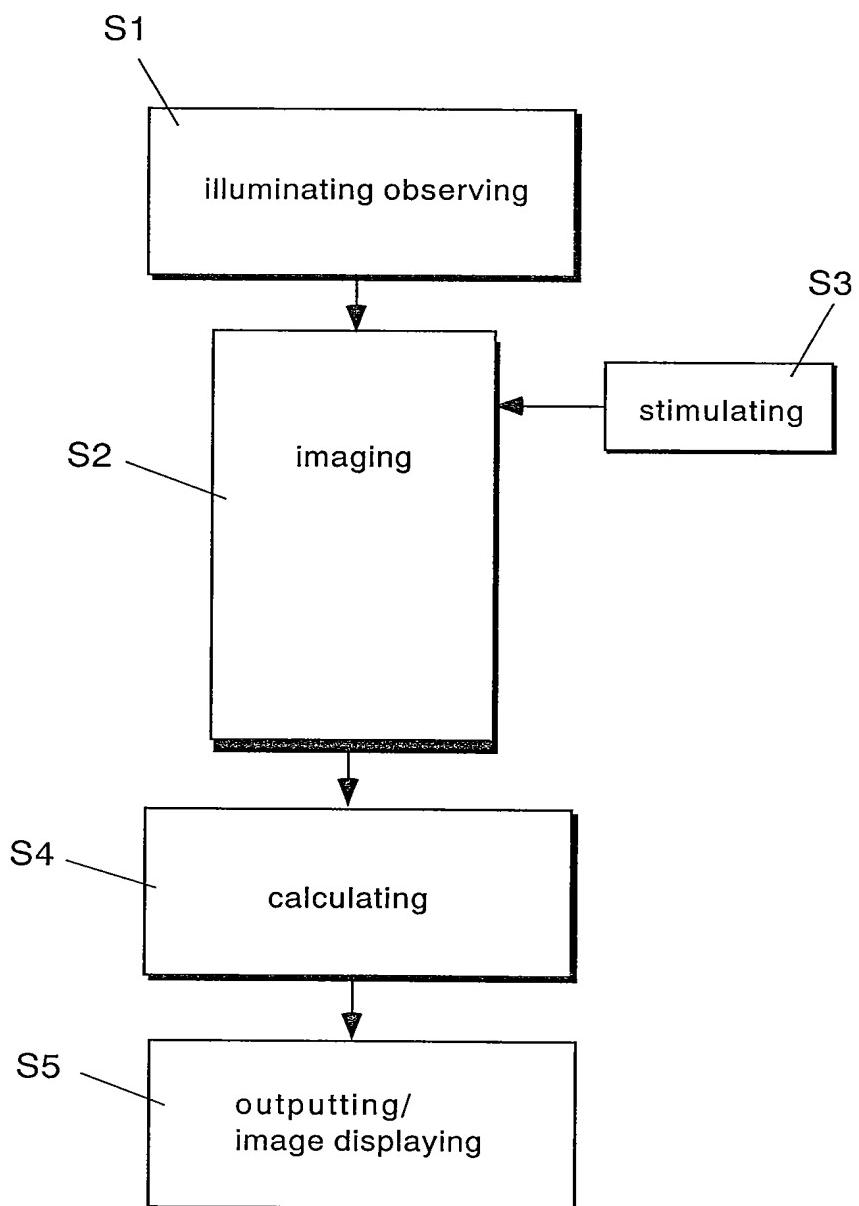


FIG.4A

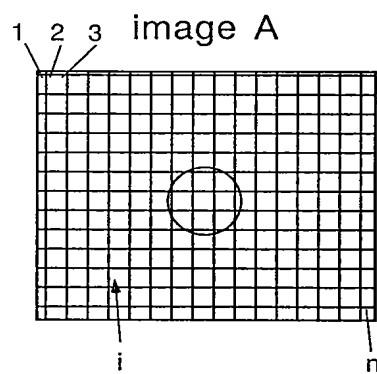


FIG.4B

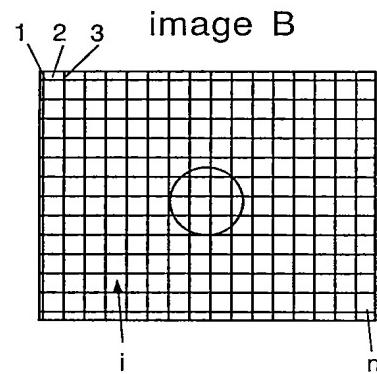


FIG.4C

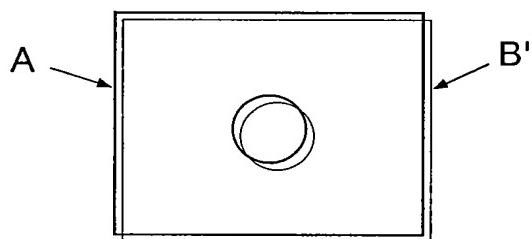


FIG.5A

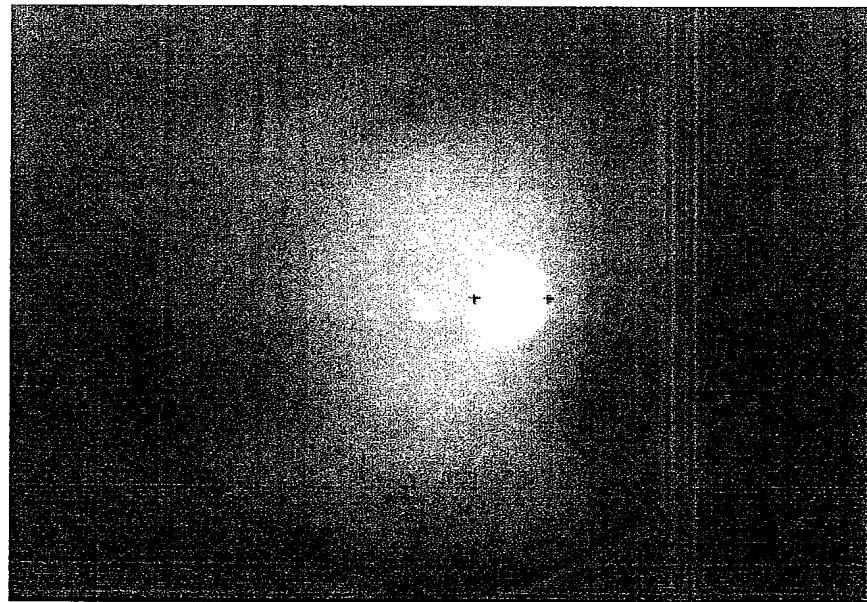


image A immediately before stimulation

FIG.5B



image B after stimulation, the neuron cells are active

FIG.6A

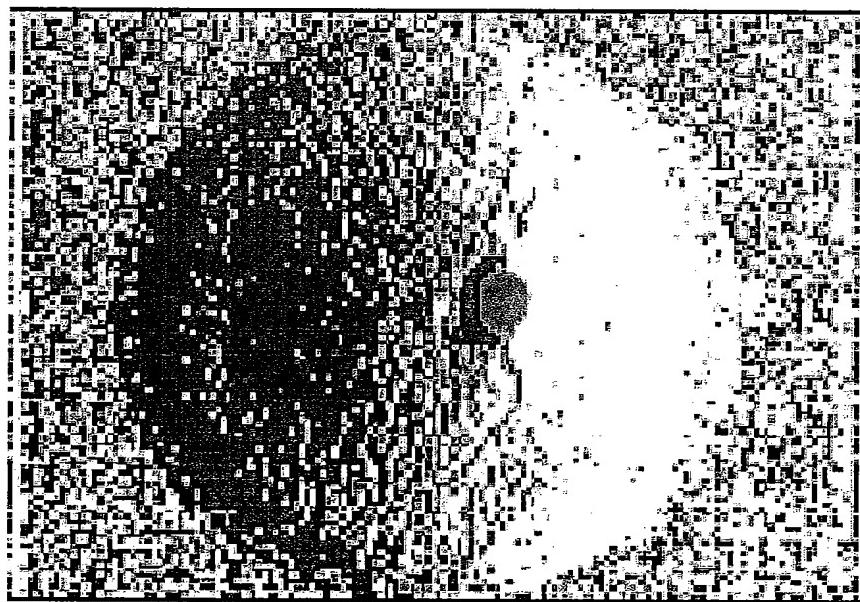


FIG.6B

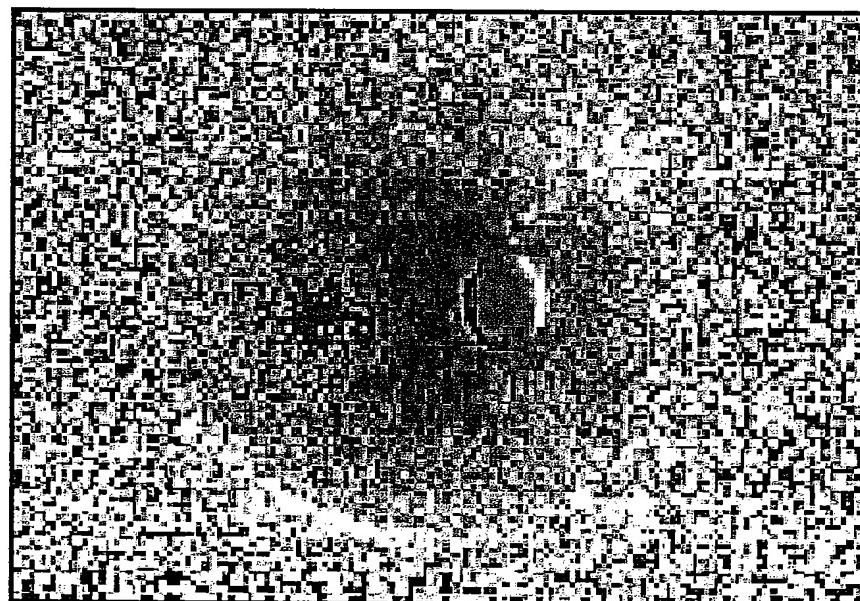
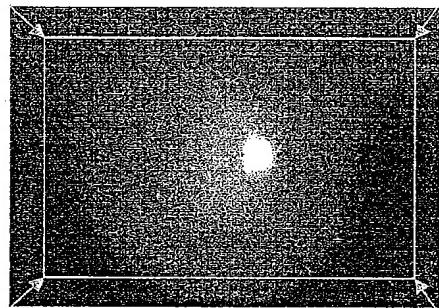
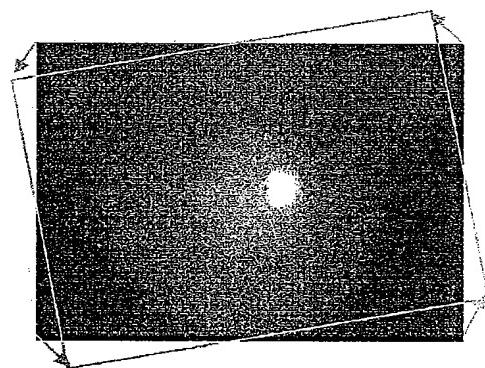


FIG.7A



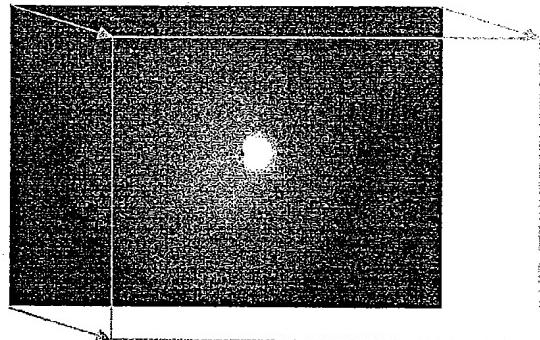
enlargement and reduction

FIG.7B



rotation

FIG.7C



translation

FIG.8A

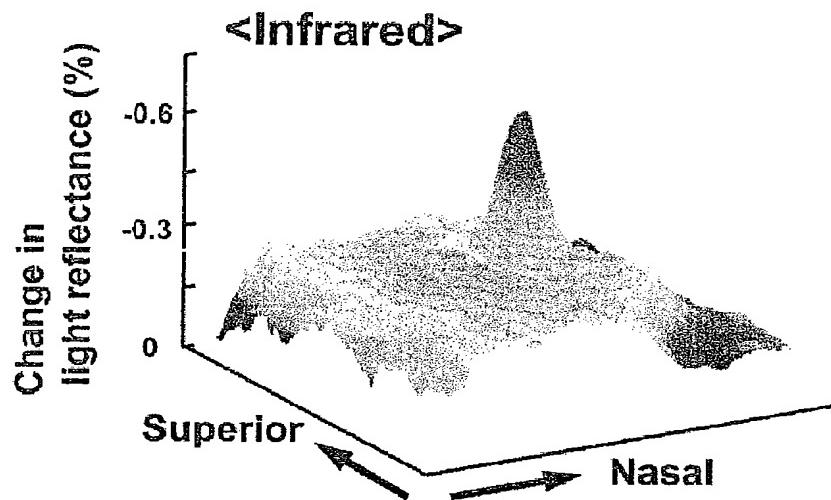


FIG.8B

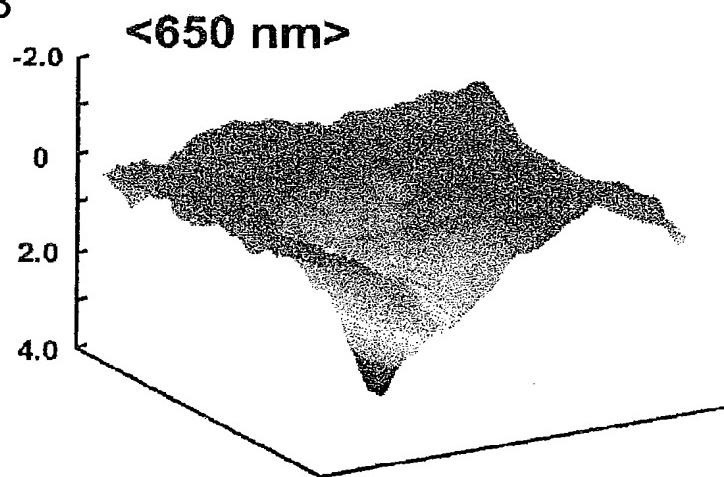


FIG.8C

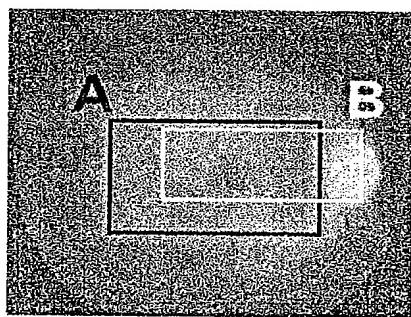


FIG.9A

fundus photograph of retina
(center is macular area)

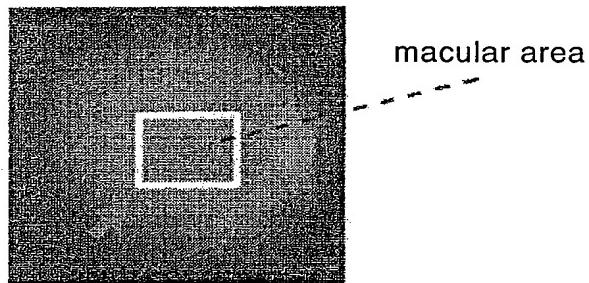


FIG.9B

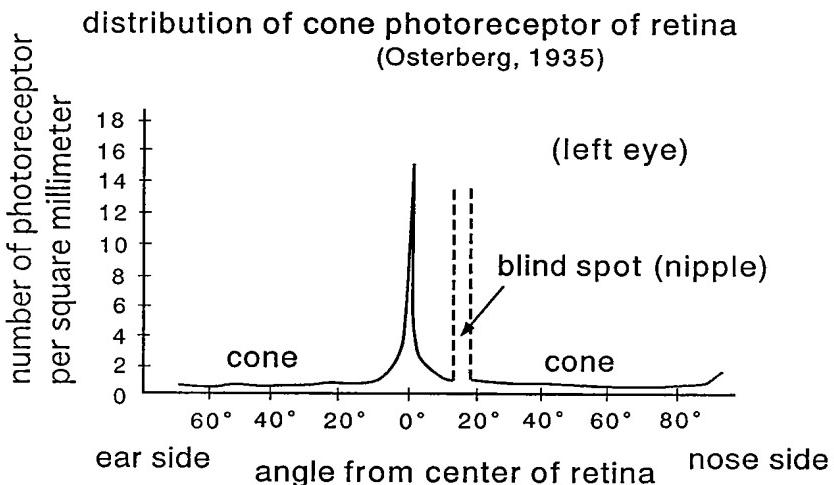


FIG.9C
functional topography of macular area
achieved by optical measurement

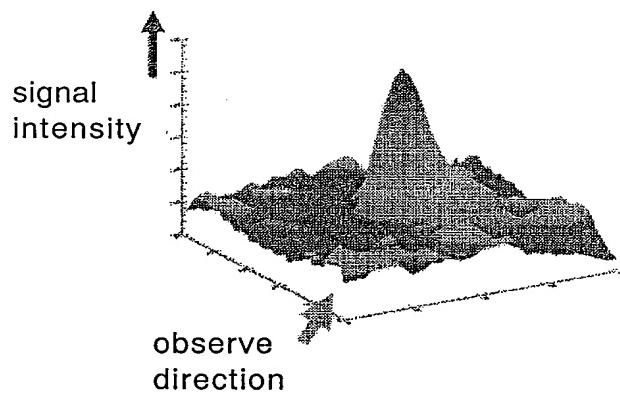


FIG.9D
cross section of FIG.9C

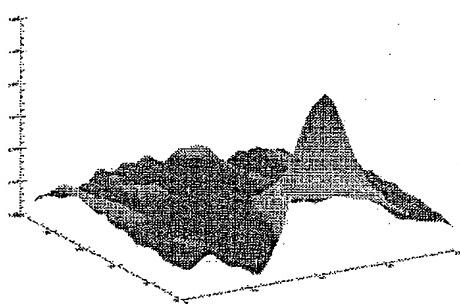


FIG.10A recorded area on retina

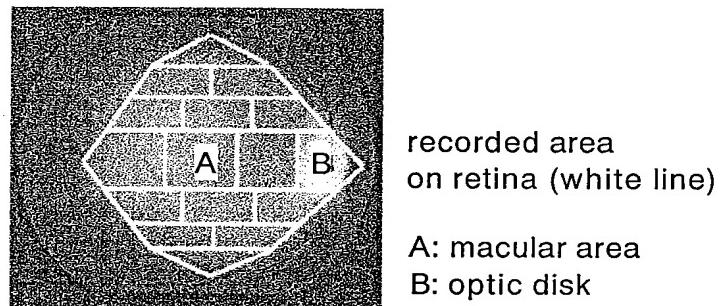


FIG.10B distribution of neural activity by electroretinogram

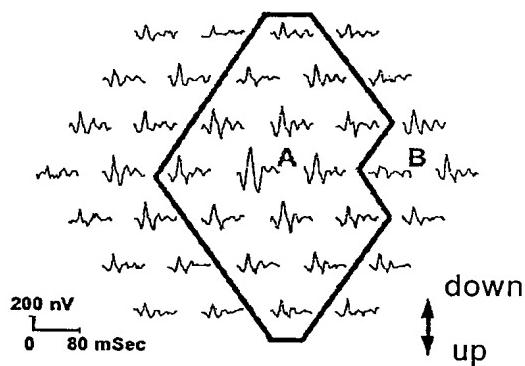


FIG.10C

correlation between intrinsic signal and signal intensity measured by electroretinogram

intrinsic signal intensity
(chang of refraction rate:%)

